

ABSTRACT

A method for improving surface thermal shock resistance of a member made of ceramics to which thermal shock resistance is required comprising, forming homogeneously distributed linear dislocation structure on the surface of the member made of ceramics to which thermal shock resistance is required by blasting abrasives composed of fine particles whose average particle size is from $5\text{ }\mu\text{ m}$ to $200\text{ }\mu\text{ m}$ and whose surface shape is convex, wherein Vickers hardness (HV) of said fine particles is 800 or more and equal to or less than the hardness of the member made of ceramics to which thermal shock resistance is required.